ABSTRACT OF THE DISCLOSURE

The catalyst warming control apparatus of the present invention is provided for a hybrid vehicle having an internal combustion engine, a generator for generating electric power from the output from the internal combustion engine, a power storage unit for storing electric power generated by the generator, and an electric motor driven by the electric power stored in the power storage unit, the hybrid vehicle being driven by at least one of the outputs from the internal combustion engine and the motor. The catalyst warming control apparatus includes a temperature detector for detecting the temperature of a catalyst or a value relating to the same; a first comparison circuit for comparing the detected result from the temperature detector with a preset reference value; and a control circuit for allowing the generator to generate electric power and to store the power in the power storage unit when the internal combustion engine is driven, and when the detected result by the temperature detector is equal to or below the reference value according to the output from the comparison circuit.